

CR-N765 Network CD Receiver

SILVER BLACK







Feel it in High Resolution

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This is the best high-fidelity CD Receiver we've ever made. Almost all of the premium technology featured in our Reference components has found its way inside the thick metal chassis to bring network Hi-Res PCM and double-rate DSD to your listening space. Everything is premium spec, from discrete three-stage amp circuitry to the top-shelf 768 kHz/32-bit D/A converter with VLSC™ pulse-noise removal. The huge capacitors, heavy-duty transformer, and symmetrical amp layout effortlessly power your choice of bookshelf speakers. We pair discrete headphone amplifier circuitry that will drive 600-ohm cans with DIDRC technology to erase high-frequency clock noise. So this receiver is perfect for your desktop as well. Hi-Res is zero hassle. The CR-N765 will handle anything from gapless 192 kHz/24-bit FLAC to native 5.6 MHz DSD seamlessly—just browse to your albums using our remote app or stream from online services or your phone directly. An iPod/iPhone-certified terminal supports most formats on USB flash drives; there's FM/AM radio and a front-loading CD player. Whatever your source ... get ready to hear it as it should be heard.

CR-N765 Network CD Receiver

• 22 W/Ch

(4 Ω , I kHz, 0.4% THD, 2 Channels Driven, IEC)

- Plays Audio CD, CD-R, and CD-RW*¹ High-Frequency Pulse Noise
- Play 192 kHz/24-bit Hi-Res PCM Audio, DSD 2.8/5.6 MHz, Lossless, and Compressed Formats via Digital Formats Discrete Headphone Amplifier with • 3 Analog Audio Inputs and 1 Output
- Gapless Playback of FLAC, WAV, and ALAC

Audio Formats

Spotify App

- Internet Radio and Music Streaming via Remote App² Three-Stage Inverted Darlington Circuitry (Spotify, TuneIn Radio, Deezer, AUPEO!)*3
- Supports Optional Wireless LAN Adapter (UWF-I) Design to and Bluetooth USB Adapter (UBT-I) Minimize Interference
- · Plays MP3, WMA, WMA Lossless, FLAC, WAV, Ogg and Vorbis, AAC, Apple Lossless, LPCM, DSD 2.8/5.6 MHz

via Network and USB

Remote App³

• Supports Spotify Connect Streaming Service via

• Premium 768 kHz/32-bit VERITA AK4490 Stereo DAC for Hi-Res Audio Decoding

- VLSC™ (Vector Linear Shaping Circuitry) to Reduce
 Dedicated Transformer for Standby Mode
 - Front-Panel USB Port for iPod/iPhone or
- Advanced Music Optimizer to Enhance Compressed • Digital Audio Inputs (Optical and Coaxial) DLNA with Remote App*2 Control •

• WRAT (Wide Range Amplifier Technology)

Amplification with Discrete Output Stage

• Two Audio-Grade 4,700 µF Capacitors for

Power Supply

Instantaneous Power Delivery

for Clear, Low-Distortion Sound

Symmetrical Power Amplifier Circuit

· Short Signal Paths Between Amplifier

16-600 Ω Headphones

- $150 + 150 \text{ mW} \text{ (THD+N } 0.4\%, 33\Omega \text{) Output for}$ Subwoofer Pre-Out
 - 40 Preset FM/AM Stations
 - RDS (PS/RT) (European Model Only)

Transparent, Gold-Plated Speaker Posts

• Full-Size Remote Control

• Display Dimmer (Normal/Dim/Dimmer)

*I Discs should be properly finalized. *2 Compatible with iPod touch (3rd generation or later) and iPhone 3GS or later. (All models require iOS 4.2 or later.) Android Devices Require Android 2.1 or later. *3 Availability Headphone Amplifier of services depends on region. Services advertised are accurate at the time Features DIDRC of printing, but may be subject to change without notice.

· Phase-Matching Bass Boost

USB Flash Drives

• Quality Tone Control Circuits (Bass/Treble)

Stream Music Stored on Mobile via Onkyo 2

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ONKYO

• 1.2 mm Thick Solid Metal Chassis

CR-N765 Network CD Receiver

Stream Hi-Res Audio from PC or Media Server The CR-N765 is engineered to play 192 kHz/24-bit Hi-Res PCM and native 2.8/5.6 MHz DSD formats via the home network. Download the Hi-Res albums of your choice, store them in a folder on PC or NAS, and use our smartphone app to select and stream via DLNA.

Gapless Hi-Res Playback

Gapless playback is supported on the most popular Hi-Res formats including FLAC, WAV, and ALAC. This prevents a distracting moment of silence when tracks blend into each other, such as between movements in classical music.

Stream Music from Mobile Apps

Onkyo's free control app lets you navigate and stream music stored on your device, and also incorporates a

number of internet radio and music streaming services including Spotify and Deezer. Subscribers can also stream direct to the CR-N765 from the Spotify app, which lets you use other mobile applications as you listen without pausing playback

Internet Radio and Music Streaming Services You can also explore a massive selection of online radio channels or browse and stream from leading on-demand music services such as Deezer, all within the smartphone

High-End Amplification Breathes Life into Music To realize our aim of reproducing authentic Hi-Fi sound in one compact component, we include Three-Stage Inverted Darlington Circuitry—the same technology used in our range-topping Reference Series Hi-Fi amplifiers. The design uses minimal negative feedback to preserve the energy and vitality of the original performance while

CR-N765 Rear View

unique three-stage topology, discrete output transistors, and a solid metal heat sink cut distortion to negligible levels. The result? Breathtaking sound.

Intermodulation Distortion Reduction Circuitry)

All-New 32-bit D/A Conversion with VLSC™ Technology

Smoothly decoding Hi-Res PCM and Double DSD (as well as other digital sources) is the flagship AK4490 VERITA 768 kHz/32-bit stereo D/A converter. As well as reducing audio degradation, the device boasts outstanding THD+N performance and an impressively wide dynamic range. The DAC works in harmony with Onkyo's VLSC (Vector Linear Shaping Circuitry), a system that reduces highfrequency pulse noise generated by the clocking signal. Together, these D/A conversion technologies produce brilliantly clear and detailed sound from any digital source.

Discrete Headphone Amplifier with DIDRC The CR-N765 doubles as a dedicated DAC/amp for headphone listening. Discrete Class A/B headphone amp circuitry delivers 150 + 150 mW of power—enough to drive any headphones rated between 16 and 600 Ω . The amplifier also benefits from proprietary DIDRC (Dynamic Intermodulation Distortion Reduction Circuitry) originally developed for our Reference two-channel components. This technology reduces high-frequency pulse noise to enhance clarity. With onboard 32-bit D/A conversion, you can simply move the symphony inside your head any time you want without compromising the power and emotion

of your listening experience. Built for Maximum Fidelity

Housed inside a thick 1.2 mm anti-vibration metal chassis are top-quality audio components. A custom power transformer links to the symmetrical L/R channels via short signal pathways to reduce errors in stereo playback. Two large 4,700 μF capacitors (sourced from

our top-of-theline P-3000R pre-amplifier) keep a deep reserve of power on hand for stellar dynamic performance, and there's also a dedicated transformer for standby mode. Processing and amplification blocks are separated to minimize noise, and your speakers are treated to gold-plated banana-plugcompatible terminals. From top to toe, this receiver is built for highfidelity sound.

Connect iPod/iPhone and USB Flash Drives The front-panel USB input enables a direct-digital connection to iPod, iPod touch, and iPhone, meaning the CR-N765 performs digital-to-analog conversion for vastly improved sound quality. The connection also supports playback of compressed, lossless, and Hi-Res file formats (including DSD) stored on USB flash drives.

Optional aptX® Bluetooth Streaming With the addition of our UBT-1 Bluetooth dongle (sold separately) you can stream almost any digital audio source to the CR-N765 via compatible devices. Bluetooth 3.0 and aptX technology enhances the quality of wireless audio by compensating for audio information lost in the compression process. This mini-system also supports the UWF-I Wireless LAN adapter if a wired connection isn't convenient.

CR-N765(S) and Speakers

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Phase-Matching Bass Enhancement

PM Bass optimizes low frequencies while preserving midrange clarity. It counters phase shifting (which generally occurs in the all-important mid-range zone occupied by vocals) by synchronizing frequency timing. The result is deep, well-defined bass that won't blur vocals or strings.

SPECIFICATIONS CD RECEIVER SECTION Amplifier Section Power Output

22 W + 22 W (4 Ω , I kHz, 0.4%, 2 Channels, Driven, IEC)
THD+N (Total Harmonic Distortion + Noise)





Rated RCA Output Level	and Impedance 150 mV/470 Ω (Line Out)
Frequency Response	10 Hz-100 kHz/+3 dB, -3 dB
Tone Control	±6 dB, 80 Hz (Bass) ±8 dB, 10 kHz (Treble) +8 dB, 30 Hz (PM Bass)
Signal-to-Noise Ratio	100 dB (Line, IHF-A)
Speaker Impedance	4 Ω –16 Ω

Tuner Section		
Tuning Frequency Ran	ge	
FM	87.5 MHz-108 MHz	
AM	522 kHz-1,611 kHz	
General		
Power Supply	AC 220–230 V~, 50/60 Hz	
Power Consumption	75 W	
Standby Power Consu	mption	
	0.2 W	
Dimensions (W x H x	D) 215 x 119 x 331 mm	
Weight	5.0 kg	
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CARTON		
Dimensions (W x H x	D) 487 x 232 x 309 mm	
Weight	7.0 kg	
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Supplied Accessories
Indoor FM Antenna • AM Loop Antenna • Instruction Manual
Remote Controller • AAA (R03) Batteries × 2